Zhi-qiang Zhang

List of Publications by Year
in descending order

77	1,834	236925 25	302126 39
papers	citations	h-index	g-index

79	79	79	1952
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	CNN Confidence Estimation for Rejection-Based Hand Gesture Classification in Myoelectric Control. IEEE Transactions on Human-Machine Systems, 2022, 52, 99-109.	3.5	9
2	Multi-Objective Optimization-Based High-Pass Spatial Filtering for SSVEP-Based Brainâ€“Computer Interfaces. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	9
3	An energyâ€efficiencyâ€adaptive clustering formation mechanism for the wireless sensor networks. IET Communications, 2022, 16, 255-265.	2.2	3
4	Latency Aligning Task-Related Component Analysis Using Wave Propagation for Enhancing SSVEP-Based BCIs. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 851-859.	4.9	10
5	Multi-UAV Optimal Mission Assignment and Path Planning for Disaster Rescue Using Adaptive Genetic Algorithm and Improved Artificial Bee Colony Method. Actuators, 2022, 11, 4.	2.3	25
6	Model-based assessment of cardiopulmonary autonomic regulation in paced deep breathing. Methods, 2022, , .	3.8	1
7	Quantitative Elbow Spasticity Measurement Based on Muscle Activation Estimation Using Maximal Voluntary Contraction. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	2
8	Multi-objective optimization-based adaptive class-specific cost extreme learning machine for imbalanced classification. Neurocomputing, 2022, 496, 107-120.	5.9	16
9	On Multiplicative Topological Invariants of Magnesium Iodide Structure. Journal of Mathematics, 2022, 2022, 1-15.	1.0	1
10	Data Analytics in Steady-State Visual Evoked Potential-Based Brainâ€“Computer Interface: A Review. IEEE Sensors Journal, 2021, 21, 1124-1138.	4.7	63
11	The Effect of Miss and Tuck Stitches on a Weft Knit Strain Sensor. Sensors, 2021, 21, 358.	3.8	9
12	A review of deep learning approaches in glove-based gesture classification. , 2021, , 143-164.		4
13	Inter-Subject Domain Adaptation for CNN-Based Wrist Kinematics Estimation Using sEMG. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1068-1078.	4.9	29
14	A CNN-LSTM Hybrid Model for Wrist Kinematics Estimation Using Surface Electromyography. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	46
15	Motor Function Assessment of Upper Limb in Stroke Patients. Journal of Healthcare Engineering, 2021, 2021, 1-11.	1.9	22
16	A deep Kalman filter network for hand kinematics estimation using sEMG. Pattern Recognition Letters, 2021, 143, 88-94.	4.2	18
17	Hierarchic Clustering-Based Face Enhancement for Images Captured in Dark Fields. Electronics (Switzerland), 2021, 10, 936.	3.1	1
18	Grasp Classification With Weft Knit Data Glove Using a Convolutional Neural Network. IEEE Sensors Journal, 2021, 21, 10824-10833.	4.7	20

#	Article	IF	Citations
19	Multi-Objective Optimisation for SSVEP Detection. , 2021, , .		1
20	A Weft Knit Data Glove. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	7
21	Development of a Face Recognition System and Its Intelligent Lighting Compensation Method for Dark-Field Application. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-16.	4.7	7
22	A Survey on Energy-Efficient Strategies in Static Wireless Sensor Networks. ACM Transactions on Sensor Networks, 2021, 17, 1-48.	3.6	33
23	A Direct Collocation method for optimization of EMG-driven wrist muscle musculoskeletal model. , 2021, , .		4
24	Robust Iterative Learning Control for Pneumatic Muscle with State Constraint and Model Uncertainty. , 2021, , .		1
25	Iterative Impedance Learning Control for Ankle Rehabilitation. , 2021, , .		0
26	Multilayer probability extreme learning machine for device-free localization. Neurocomputing, 2020, 396, 383-393.	5.9	32
27	Data-Driven Multiobjective Optimization for Burden Surface in Blast Furnace With Feedback Compensation. IEEE Transactions on Industrial Informatics, 2020, 16, 2233-2244.	11.3	51
28	Robust extreme learning machine for modeling with unknown noise. Journal of the Franklin Institute, 2020, 357, 9885-9908.	3.4	24
29	High-Order Model-Free Adaptive Iterative Learning Control of Pneumatic Artificial Muscle With Enhanced Convergence. IEEE Transactions on Industrial Electronics, 2020, 67, 9548-9559.	7.9	84
30	Non-iterative and Fast Deep Learning: Multilayer Extreme Learning Machines. Journal of the Franklin Institute, 2020, 357, 8925-8955.	3.4	139
31	An EMG-Driven Musculoskeletal Model for Estimating Continuous Wrist Motion. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 3113-3120.	4.9	33
32	Surface-EMG based Wrist Kinematics Estimation using Convolutional Neural Network. , 2019, , .		18
33	Partially shared cache and adaptive replacement algorithm for NoC-based many-core systems. Journal of Systems Architecture, 2019, 98, 424-433.	4.3	4
34	A Multidimensional Reputation Evaluation Model for Mobile Crowd Sensing. , 2019, , .		2
35	A Robust, Practical Upper Limb Electromyography Interface Using Dry 3D Printed Electrodes*. , 2019, , .		3
36	Upper Limb Muscle Force Estimation During Table Tennis Strokes. , 2019, , .		2

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37	An Energy-Efficient Compressive Sensing-Based Clustering Routing Protocol for WSNs. IEEE Sensors Journal, 2019, 19, 3950-3960.	4.7	108
38	Quantitative Assessment of Autonomic Regulation of the Cardiac System. Journal of Healthcare Engineering, 2019, 2019, 1-8.	1.9	9
39	Energy Efficiency of Gait Rehabilitation Robot: A Review. , 2019, , .		0
40	A Multi-sensor Fusion Approach for Intention Detection. Biosystems and Biorobotics, 2019, , 454-458.	0.3	0
41	Adaptive Optimization Design of Vector Error Diffusion Algorithm and IP Core for FPGA. , 2018, , .		1
42	A Fuzzy-logic Based Energy-efficient Clustering Algorithm for the Wireless Sensor Networks. , 2018, , .		14
43	Alterations of Muscle Synergies During Voluntary Arm Reaching Movement in Subacute Stroke Survivors at Different Levels of Impairment. Frontiers in Computational Neuroscience, 2018, 12, 69.	2.1	41
44	Doppler Radar Vital Signs Detection Method Based on Higher Order Cyclostationary. Sensors, 2018, 18, 47.	3.8	21
45	A lightweight sensing platform for monitoring sleep quality and posture: a simulated validation study. European Journal of Medical Research, 2018, 23, 28.	2.2	25
46	Human motion tracking based on complementary Kalman filter. , 2017, , .		5
47	A computationally efficient method for handâ€“eye calibration. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1775-1787.	2.8	43
48	Fusion of Inertial/Magnetic Sensor Measurements and Map Information for Pedestrian Tracking. Sensors, 2017, 17, 340.	3.8	38
49	A Framework for Learning Analytics Using Commodity Wearable Devices. Sensors, 2017, 17, 1382.	3.8	33
50	A Pilot Study of Individual Muscle Force Prediction during Elbow Flexion and Extension in the Neurorehabilitation Field. Sensors, 2016, 16, 2018.	3.8	15
51	SSVEP-Based Brainâ€“Computer Interface Controlled Functional Electrical Stimulation System for Upper Extremity Rehabilitation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 947-956.	9.3	51
52	A personalized-model-based central aortic pressure estimation method. Journal of Biomechanics, 2016, 49, 4098-4106.	2.1	6
53	Blind source separation and artefact cancellation for single channel bioelectrical signal. , 2016, , .		8
54	Beat-to-beat ambulatory blood pressure estimation based on random forest. , 2016, , .		27

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55	An Analysis Framework for Interuser Interference in IEEE 802.15.6 Body Sensor Networks: A Stochastic Geometry Approach. IEEE Transactions on Vehicular Technology, 2016, 65, 8567-8577.	6.3	23
56	Cameras and Inertial/Magnetic Sensor Units Alignment Calibration. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1495-1502.	4.7	21
57	Monitoring cardio-respiratory and posture movements during sleep: What can be achieved by a single motion sensor. , 2015, , .		19
58	Wearable Sensing for Solid Biomechanics. IEEE Sensors Journal, 2015, , 1-1.	4.7	55
59	Use of an Inertial/Magnetic Sensor Module for Pedestrian Tracking During Normal Walking. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 776-783.	4.7	46
60	Micromagnetometer Calibration for Accurate Orientation Estimation. IEEE Transactions on Biomedical Engineering, 2015, 62, 553-560.	4.2	28
61	Two-Step Calibration Methods for Miniature Inertial and Magnetic Sensor Units. IEEE Transactions on Industrial Electronics, 2014, , 1-1.	7.9	26
62	Self-Contained Pedestrian Tracking During Normal Walking Using an Inertial/Magnetic Sensor Module. IEEE Transactions on Biomedical Engineering, 2014, 61, 892-899.	4.2	40
63	Calibration of Miniature Inertial and Magnetic Sensor Units for Robust Attitude Estimation. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 711-718.	4.7	43
64	Wearable Sensor Integration and Bio-motion Capture: A Practical Perspective. , 2014, , 495-526.		7
65	Forearm functional movement recognition using spare channel surface electromyography. , 2013, , .		8
66	Snake robot shape sensing using micro-inertial sensors. , 2013, , .		9
67	Adaptive Information Fusion for Human Upper Limb Movement Estimation. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2012, 42, 1100-1108.	2.9	58
68	Quaternion-Based Kalman Filter With Vector Selection for Accurate Orientation Tracking. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 2817-2824.	4.7	65
69	Deformable structure from motion by fusing visual and inertial measurement data. , 2012, , .		12
70	Human Back Movement Analysis Using BSN. , 2011, , .		8
71	Multi-model adaptation for thigh movement estimation using accelerometers. IET Signal Processing, 2011, 5, 709.	1.5	6
72	A Novel Hierarchical Information Fusion Method for Three-Dimensional Upper Limb Motion Estimation. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 3709-3719.	4.7	55

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73	Ubiquitous Human Upper-Limb Motion Estimation using Wearable Sensors. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 513-521.	3.2	69
74	Wearable sensors for 3D upper limb motion modeling and ubiquitous estimation. Journal of Control Theory and Applications, 2011, 9, 10-17.	0.8	16
75	WISDOM: wheelchair inertial sensors for displacement and orientation monitoring. Measurement Science and Technology, 2011, 22, 105801.	2.6	28
76	Ambulatory Hip Angle Estimation using Gaussian Particle Filter. Journal of Signal Processing Systems, 2010, 58, 341-357.	2.1	11
77	KDLPCCA-Based Projection for Feature Extraction in SSVEP-Based Brain-Computer Interfaces. Journal of Shanghai Jiaotong University (Science), 0, , 1.	0.9	0